

REMARKS

The above Amendments and these Remarks are submitted under 35 U.S.C. § 132 and 37 C.F.R. § 1.111 in response to the Final Office Action mailed October 5, 2004.

Summary of the Examiner's Action and Applicants' Response

The Examiner has rejected Claims 1 and 7 under 35 U.S.C. 103(a) as being obvious based on Lindqvist, U.S. Patent No. 6,075,430. The Examiner has rejected Claims 2, 3, 5, 6, 8, 9, 11, and 12 under 35 U.S.C. 103(a) as being obvious based on Lindqvist in view of Gutierrez, U.S. Patent No. 6,512,175. Applicants respectfully traverse the rejections.

In this amendment, Applicants have amended Claims 1, 2, 7, and 11. After entry of this Amendment, Claims 1-12 remain pending.

Interview Summary

Applicants respectfully thank the Examiner for agreeing to a telephone interview on March 4, 2005 during which the Office Action was discussed. The Examiner stated during the interview that a response must be filed in order to enable her to review our arguments and any amendments in view of the cited prior art.

Response to Rejection to Claims 1 and 7

The Examiner has rejected Claims 1 and 7 under 35 U.S.C. 103(a) as being obvious based on Lindqvist. Applicants have amended Claims 1 and 7 to further patentably define the invention. The inductive element in Claim 1, as amended, and the transformer in Claim 7, as amended, includes a core having a central elongated portion that has an approximately rectangular cross-sectional shape. As claimed in Claims 1 and 7, as amended, the winding is wound about the elongated portion so as to create a **substantially rectangular cross-sectional shape** such that the outer surface of said winding defines a **substantially rectangular planar surface** so as to facilitate surface mounting of said winding on an adjacent structure.

The present specification describes that a key problem solved by the invention is enabling improved transfer of heat from a surface mounted inductive element. (See paragraph [0003]) In describing an embodiment wherein the adjacent structure is a Printed Circuit Board (PCB), the

specification describes that “[t]he device permits the coplanar mounting of the core and the winding to the PCB so that heat in the core can be conducted to the PCB through both the core ends and the winding.” (Paragraph [0022])

The Examiner stated that Lindqvist teaches a planar surface defined by a wound cylindrical core, as claimed in Claim 1. Applicants respectfully submit that the wound cylindrical core taught in Lindqvist creates, at best, a tangential plane. Lindqvist does not teach or suggest a winding wound about a core for creating a substantially rectangular planar surface, as claimed in Claims 1 and 7. The greater surface area provided by the substantially rectangular planar surface created by the winding, as claimed in Claims 1 and 7, enables substantially greater heat transfer when surface mounted on an adjacent structure as compared to any tangential plane created by Lindqvist. Applicants respectfully submit, therefore, that Lindqvist does not address or solve the heat transfer problem for surface mounted structures that is solved by the present invention.

The Examiner stated that Lindqvist discloses in the background that it had been known in the art that magnetic cores can be made by compressing of coiled strips into rectangular shapes. Applicants respectfully submit that Lindqvist does not teach or suggest a rectangular core, as claimed in Claims 1 and 7, but rather a rectangular yoke. More specifically, Lindqvist states in the background that “[a] yoke is formed by winding another strip to a rectangular shape, whereafter the compressed coil is inserted into the yoke.” (Col. 1, lines 14-16). Moreover, Lindqvist discloses an inductive component comprising a magnet core (1), a coil (6) and a yoke (7, 10). As can be seen in FIG. 1c, 1d, Lindqvist discloses a rectangular yoke 7 **formed around the core** 6, not a rectangular core. For this additional reason, Applicants respectfully submit that Lindqvist does not teach or suggest the inductive element and transformer, as claimed in Claims 1 and 7, respectively.

Applicants respectfully submit, therefore, that for all of the above reasons, Claims 1 and 7 are not obvious based on Lindqvist.

Response to Rejection to Claims 2, 3, 5, 6, 8, 9, 11 and 12

The Examiner has rejected Claims 2, 3, 5, 6, 8, 9, 11, and 12 under 35 U.S.C. 103(a) as being obvious based on Lindqvist in view of Gutierrez. The Examiner stated that Lindqvist disclosed the invention, as claimed in Claims 2, 3, 5, 6, 8 and 9 and the corresponding method claims, Claims 11 and 12, except for the mounting frame. Applicants respectfully disagree.

Applicants have amended Claims 2 and 11 to include similar limitations as in Claims 1 and

7 to further patentably define the invention. Applicants respectfully submit that, as discussed for Claims 1 and 7 above, Lindqvist does not teach or suggest the approximately rectangular shaped elongated portion of the core and a winding on the elongated portion that creates a substantially rectangular planar surface, as claimed in Claims 2 and 11. Therefore, Applicants respectfully submit that, for the reasons above, Claims 2 and 11 are not obvious based on Lindqvist. Applicants respectfully submit that Gutierrez discloses electronic packaging and does not teach or suggest the invention, as claimed in Claims 2 and 11. Applicants respectfully submit that for the above reasons, Claims 2 and 11 are not obvious based on Lindqvist in view of Gutierrez.

Claims 3, 5, and 6 depend from Claim 2 and are not obvious for the same reasons as above for Claim 2. Claims 8 and 9 depend from Claim 7 and are not obvious for the same reasons as above for Claim 7. Claim 12 depends from Claim 11 and is not obvious for the same reasons as above for Claim 11.

Conclusion

For the above reasons, Applicants respectfully submit that all pending claims in the present application are in condition for allowance. Such allowance is respectfully solicited.

If a telephone conference would expedite prosecution of this application, the Examiner is invited to telephone the undersigned at (415) 267-6200.

Respectfully submitted,



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